

Translation of Claims as Amended Under Article 19

1. Piezoelectric transformer with at least two ceramic layers, containing a hard piezoelectric material, and with an electrode layer that contains copper disposed between the two ceramic layers.
2. Transformer according to Claim 1,
made of ceramic green films containing a thermohydrolytically decomposable binder.
3. Transformer according to Claim 2,
in which the binder is a polyurethane dispersion.
4. Transformer according to one of Claims 1 to 3,
in which the piezoelectric ceramic material has the general composition $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$,
wherein part of Zr or Ti is replaced by a low-valent cation of the oxidation level 1+ or 2+.
5. Transformer according to one of Claims 1 to 4,
in which the piezoelectric ceramic material has the general composition $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$,
wherein part of Pb is replaced by a low-valent cation of the oxidation level 1+.
6. Transformer according to one of Claims 1 to 4,
in which the ceramic composition has the general formula
 $\text{Pb}[(\text{Zr}_x\text{Ti}_{1-x})_{1-y}(\text{Mn}_{1/3}\text{Nb}_{2/3})_y]\text{O}_3$.
7. Transformer according to one of Claims 1 to 6,
in which the internal electrode is produced by means of screen printing.

8. Method for the production of a transformer, wherein a hard piezoelectric ceramic is sintered in an inert atmosphere.

9. Method according to Claim 8,
wherein the ceramic is sintered at a temperature below the melting point of copper.